



**SPECIAL MEETING
OF THE
Gillespie Field
Development Council
April 15, 2004**



**RUNWAY 27R
REHABILITATION**

prepared and presented by

Peter D. Bonello, P.E.



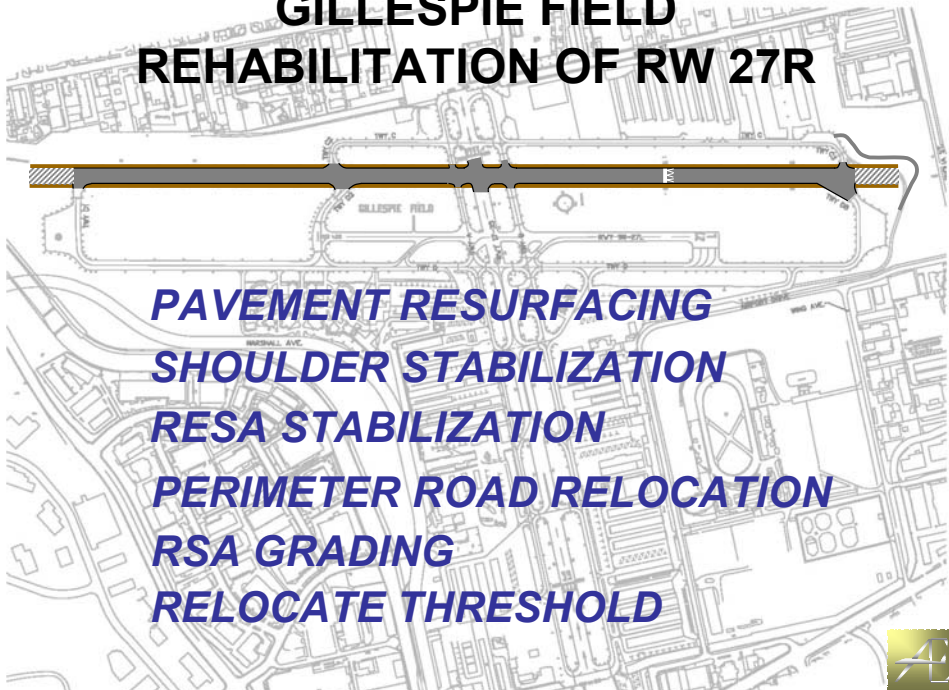
**RUNWAY 27R
REHABILITATION**

Project Overview

Construction Planning

Approach Light System

GILLESPIE FIELD REHABILITATION OF RW 27R



RUNWAY OVERLAY

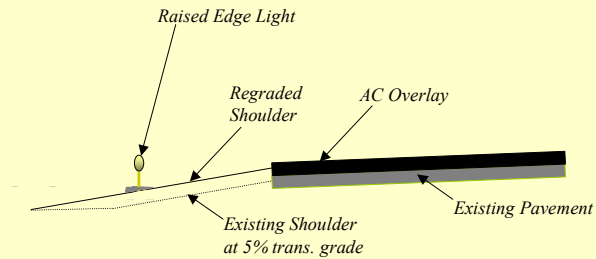


SURFACE SMOOTHNESS

GILLESPIE FIELD RW 27R REHAB



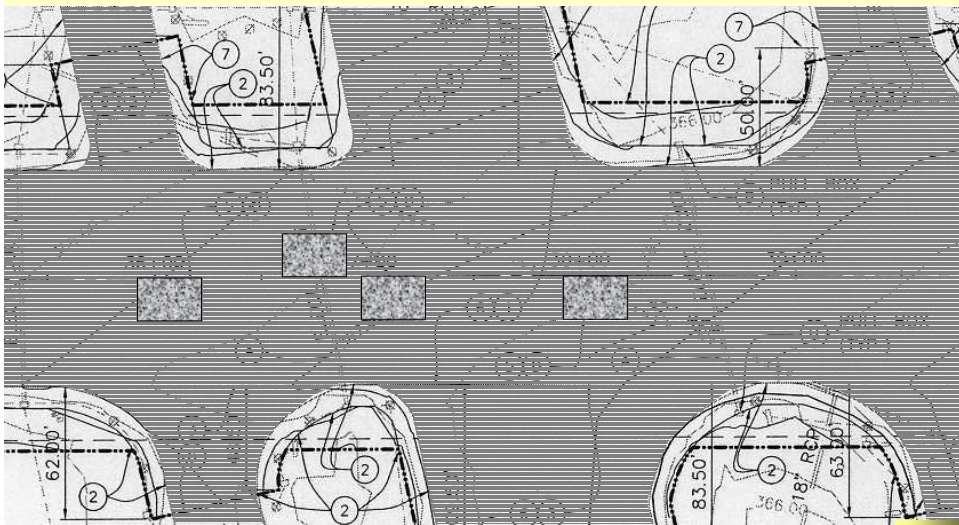
RUNWAY OVERLAY INCIDENTALS



GILLESPIE FIELD RW 27R REHAB



RUNWAY OVERLAY INCIDENTALS



GILLESPIE FIELD RW 27R REHAB



GILLESPIE FIELD REHABILITATION OF RW 27R

CONSTRUCTION ALTERNATIVES:

- ❑ CLOSE RUNWAY FOR DURATION
- ❑ OFF-PEAK CONSTRUCTION



GILLESPIE FIELD REHABILITATION OF RW 27R

OFF PEAK CONSTRUCTION

❑ ADVANTAGES

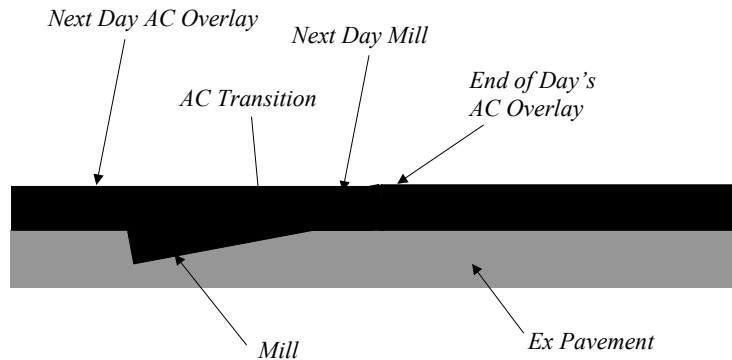
- ✓ DAILY USE OF RW 27R

❑ DISADVANTAGES

- ✓ EXTENDED PERIOD OF CONSTRUCTION
- ✓ QUALITY SUFFERS
- ✓ HIGHER PROJECT COST



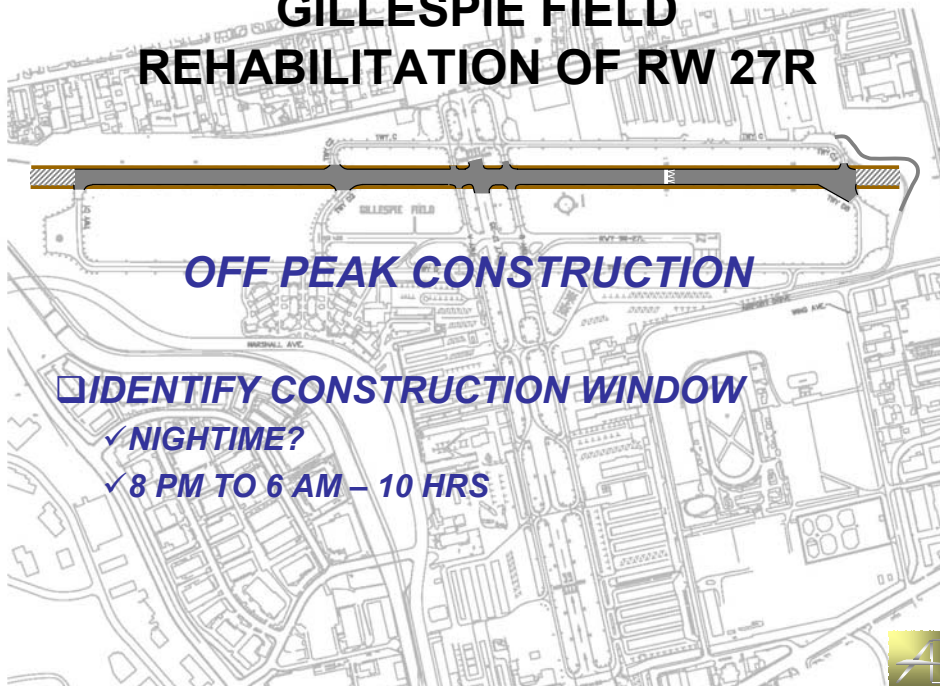
OFF-PEAK CONSTRUCTION ISSUES



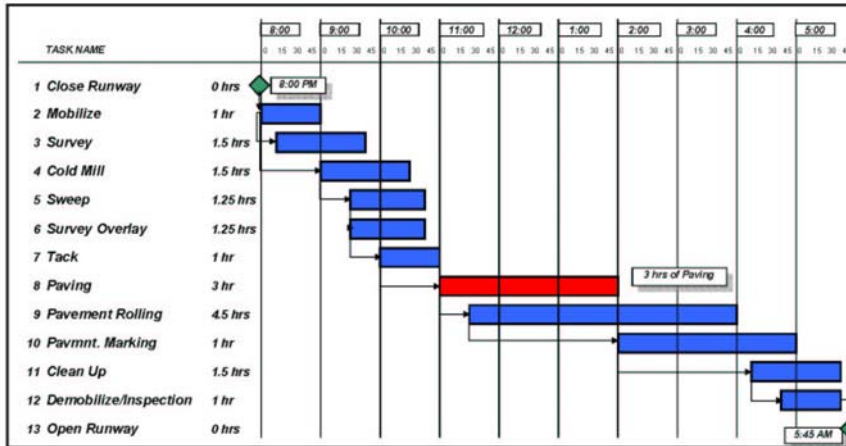
GILLESPIE FIELD RW 27R REHAB



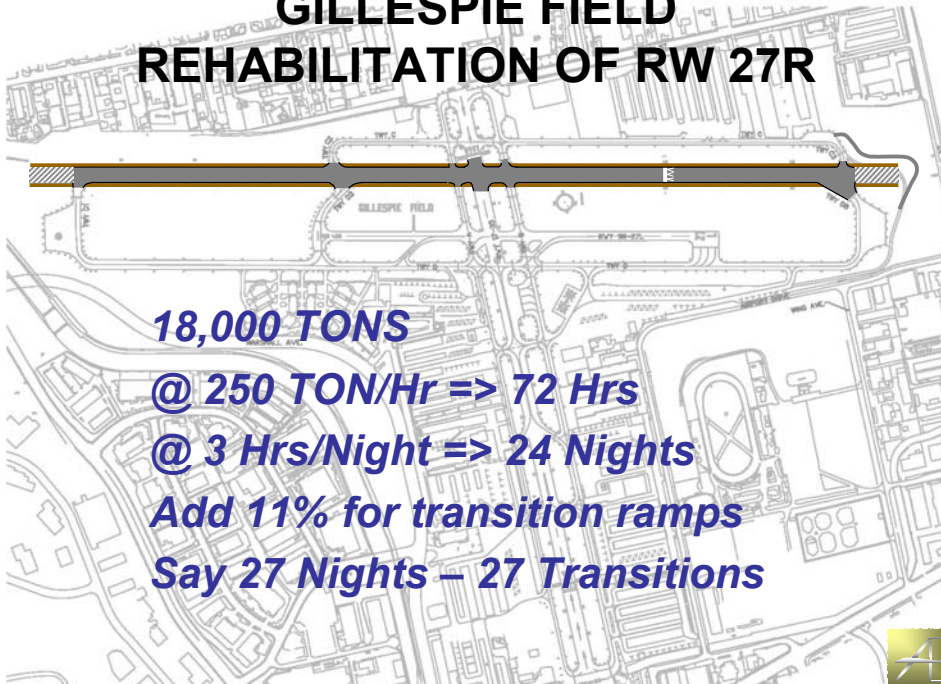
GILLESPIE FIELD REHABILITATION OF RW 27R



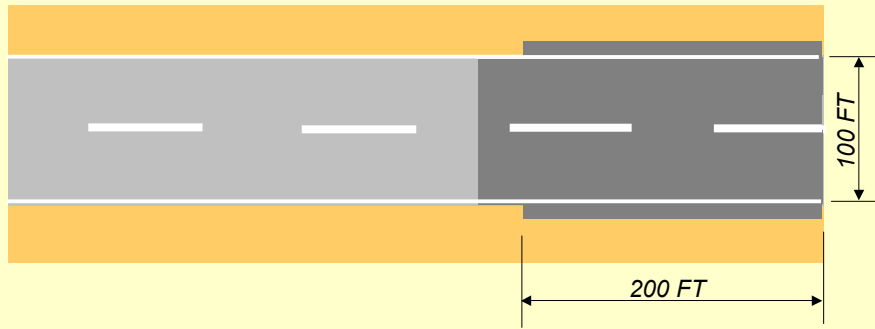
TYPICAL CONSTRUCTION SEQUENCE
FOR
MILLING - PAVING - MARKING
10 HOUR SHIFT



GILLESPIE FIELD REHABILITATION OF RW 27R



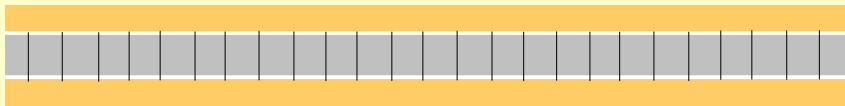
OFF-PEAK CONSTRUCTION ISSUES



GILLESPIE FIELD RW 27R REHAB



OFF-PEAK CONSTRUCTION ISSUES

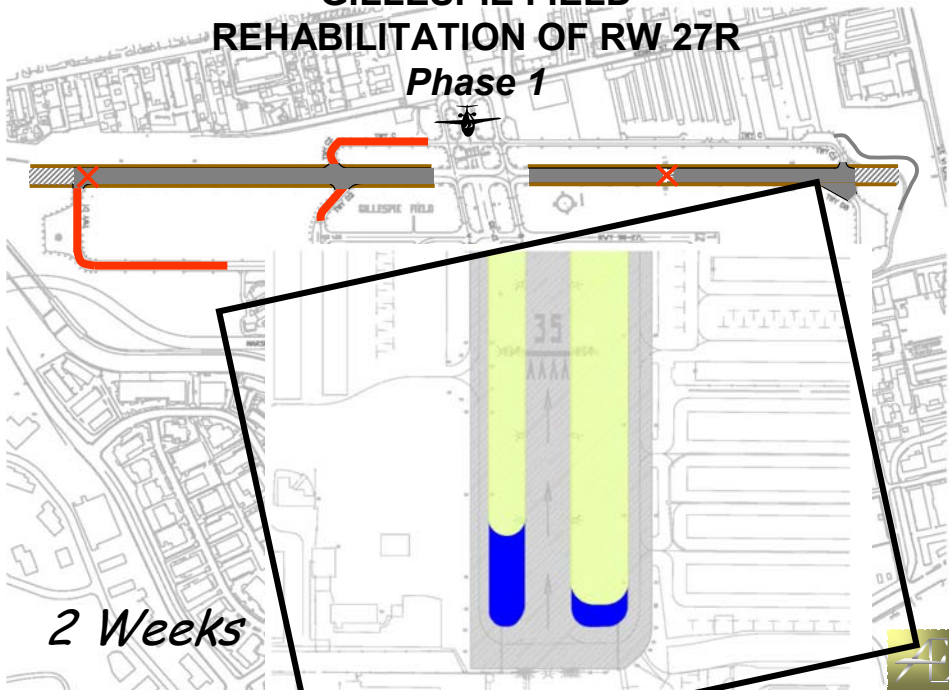


... \$500,000 more

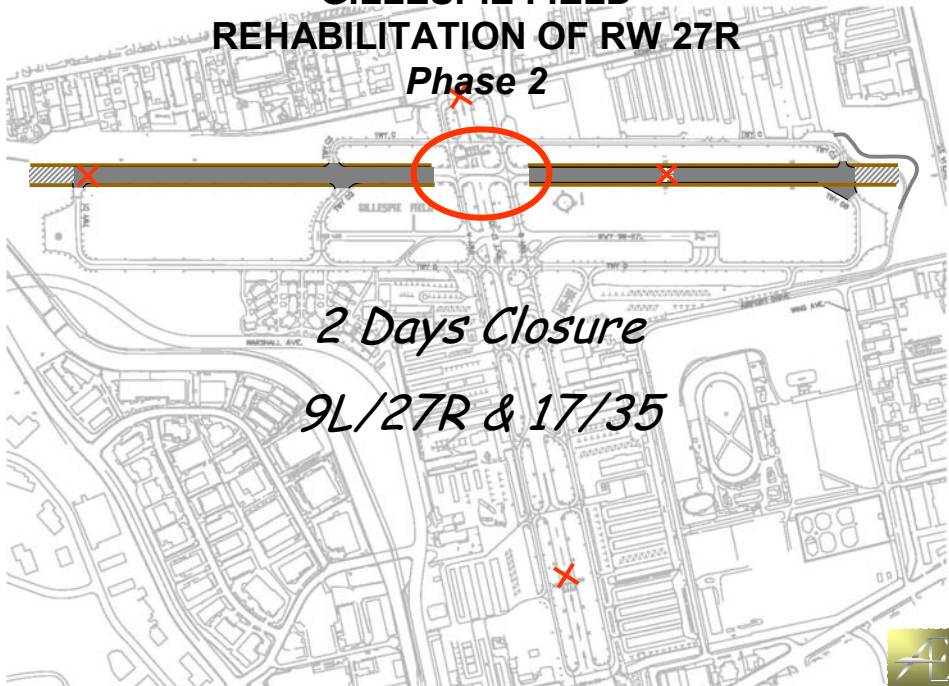
GILLESPIE FIELD RW 27R REHAB



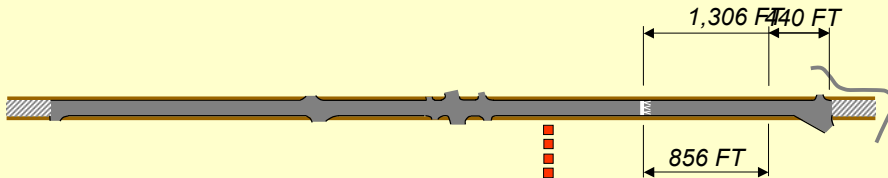
**GILLESPIE FIELD
REHABILITATION OF RW 27R
Phase 1**



**GILLESPIE FIELD
REHABILITATION OF RW 27R
Phase 2**



GILLESPIE FIELD REHABILITATION OF RW 27R



RELOCATE THRESHOLD



PLASI Pulse Light Approach Slope Indicator

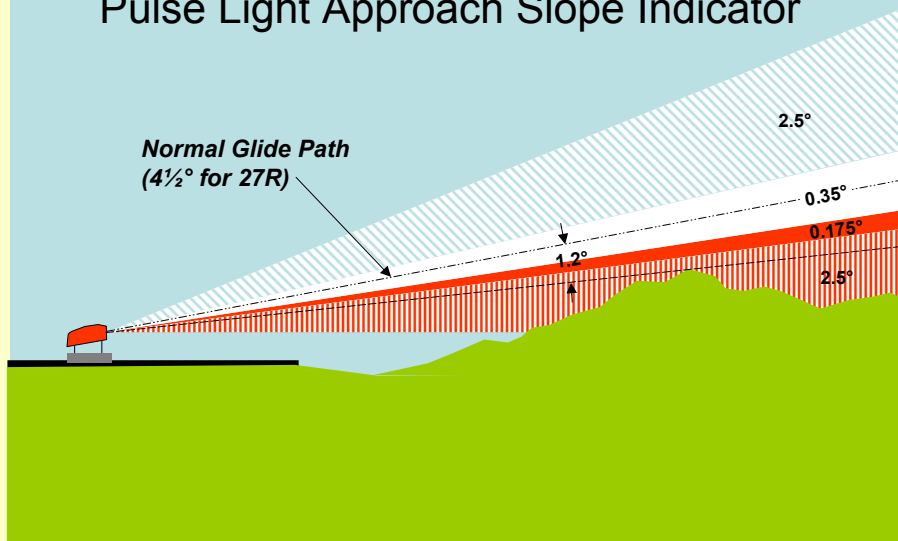


GILLESPIE FIELD RW 27R REHAB



PLASI

Pulse Light Approach Slope Indicator

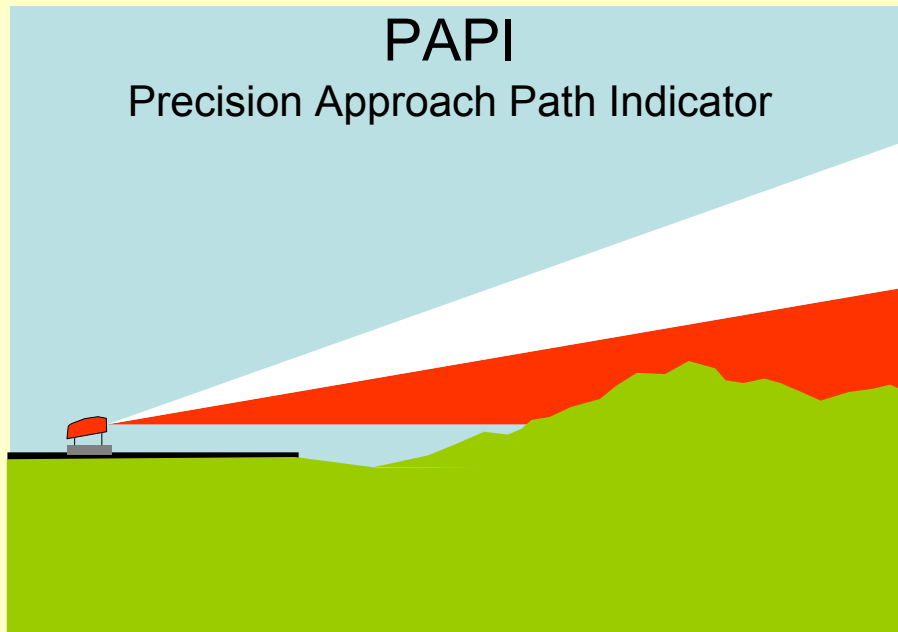


GILLESPIE FIELD RW 27R REHAB



PAPI

Precision Approach Path Indicator

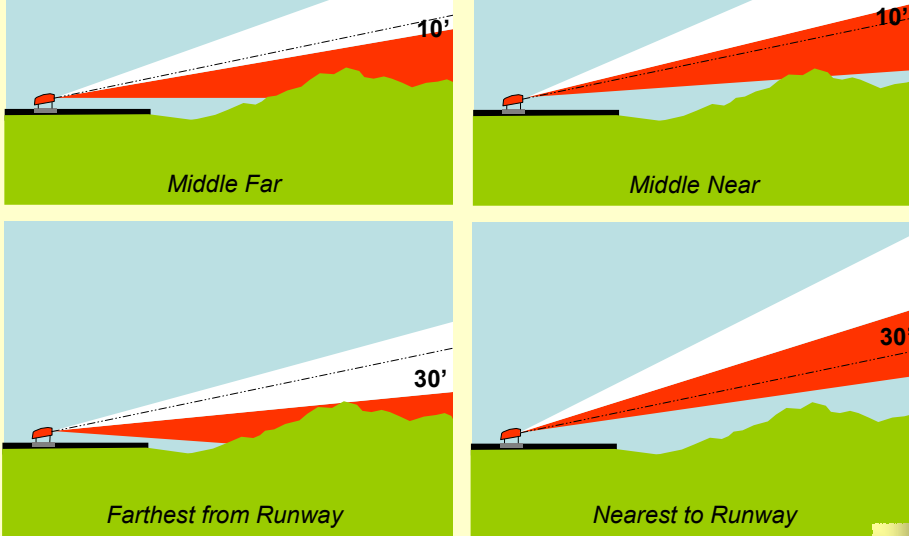


GILLESPIE FIELD RW 27R REHAB



PAPI

Precision Approach Path Indicator

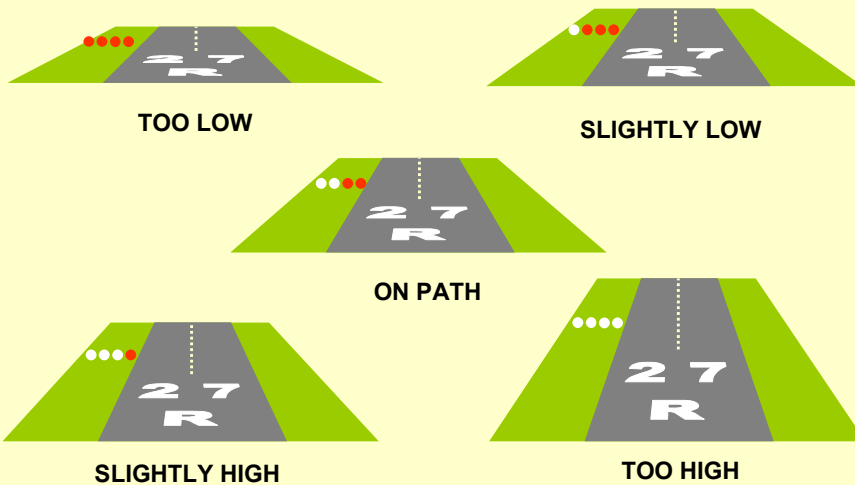


GILLESPIE FIELD RW 27R REHAB



PAPI

Precision Approach Path Indicator



GILLESPIE FIELD RW 27R REHAB



PAPI vs PLASI

*Both Meet FAA and ICAO standards
Similar in Accuracy and Range*

PAPI

8 Bulbs (250 or 400 W)

1 Spare for each Box

4 Foundations

No Mechanical Parts

Costs More

More prevalent

PLASI

1 Bulb (900 W)

3 Spares

1 Foundation

Mechanical Parts

Costs Less

Not Common

GILLESPIE FIELD RW 27R REHAB



